

## AMENDMENTS TO THE CLAIMS

### ***Listing of the Claims:***

1. (Currently amended) A method for updating configuration parameters in a customer premises telecommunications hub comprising:

receiving in a customer premises telecommunications hub a new configuration file sent from a remote location;

identifying, by said customer premises telecommunications hub, parameters in the new configuration file which are different than existing operating parameters stored in said customer premises telecommunications hub;

checking determining, by said customer premises telecommunications hub, whether all of the parameters in the new configuration file which are different to determine whether they can be changed dynamically, and

if all parameters which are different can be dynamically changed, updating all of the existing operating parameters stored in said customer premises telecommunications hub to those contained the parameters in the new configuration file which are different without rebooting said customer premises telecommunications hub when all of the parameters in the new configuration file which are different can be dynamically changed.

2. (Currently amended) A method according to Claim 1, further comprising:

if any of the parameters which are different cannot be dynamically changed, updating all of the existing operating parameters stored in said customer premises telecommunications hub to those contained the parameters in the new configuration file

which are different by rebooting the system customer premises telecommunications hub  
when any of the parameters in the new configuration file which are different cannot be  
dynamically changed.

3. (Currently Amended) A method according to Claim 1, wherein:

    said customer premises telecommunications hub comprises a configuration update module and a plurality of other functional modules which use parameters contained in the new configuration file,

    said other functional modules register check and update function calls with said update module,

    said update module writes the new configuration file into flash memory and issues [[a]]the check function call to each of the other functional modules, and

    each of the other functional modules performs the check function by comparing  
compares configuration file parameters in the new configuration file to its existing operating parameters, and notifiesnotifying the update module whether the parameters which are different can be changed dynamically.

4. (Original) A method according to Claim 3, wherein:

    if the parameters which are different can be changed dynamically, said update module issues an update function call to each of the other functional modules.

5. (Original) A method according to Claim 3, wherein:  
if the parameters which are different cannot all be changed dynamically, said update module reboots the system.
  
6. (Original) A method according to Claim 1, wherein:  
said step of updating parameters is performed when said customer premises telecommunications hub is in an idle state.
  
7. (Original) A method according to Claim 1, wherein:  
said new configuration file is received over a wide area network connection in Internet protocol.
  
8. (Original) A method according to Claim 1, wherein:  
said new configuration file is received over a DSL connection to a server in a central office.
  
9. (Currently Amended) A customer premises telecommunications hub, comprising:  
a wide area network connection for receiving Internet protocol messages,  
a memory storing a configuration file,  
a microprocessor having a plurality of functional program modules operating with parameters contained in the configuration file, each of the functional modules locally

storing configuration file parameters which affect its operations and having a check function and an update function, and

a configuration update module adapted to receive a new configuration file over the wide area network connection while the microprocessor is in a running state, to store the new configuration file in memory, and to call the check function and the update function in each of the functional modules.

wherein the check function for each of the functional modules determines whether any parameters in the new configuration file which affect the functional module have been changed, for each parameter that has been changed the check function determines whether the parameter can be updated dynamically, and the check function reports to the configuration update module whether all of the parameters that have been changed can be updated dynamically.

10. (Original) A system for dynamically updating configuration file parameters in a customer premises telecommunications hub comprising:

a remotely located configuration server accessible over a wide area network connection,

means for receiving a new configuration file from said configuration file server over a wide area network connection while the customer premises telecommunications hub is in running state,

means for comparing parameters controlling operation of the customer premises telecommunications hub to parameters contained in the new configuration file and identifying parameters which are different,

means for identifying parameters which can be changed dynamically,  
means for, if all parameters which are different can be changed dynamically,  
dynamically updating parameters to those contained in the new configuration file.

11. (Previously Presented) The system of Claim 10 further comprising:  
means for, if any parameter which is different cannot be changed dynamically,  
causing the customer premises telecommunications hub to reboot.
12. (Previously Presented) The system of Claim 10 further comprising:  
means for dynamically updating parameters to those contained in the new  
configuration file only when the customer premises telecommunications hub is in idle  
state.
13. (New) The method according to Claim 3, wherein:  
said update module issues the update function call to each of the other functional  
modules when the update module is notified by all of the other functional modules that  
the parameters which are different can be changed dynamically, and  
each of the other functional modules performs the update function by reading the  
parameters which are different from the new configuration file and writing the read  
parameters to locally stored configuration file parameters which it uses.
14. (New) The customer premises telecommunications hub of claim 3, wherein said  
update module issues a command to reboot said customer premises

telecommunications hub when any of the functional modules notify the update module that not all of the parameters which are different can be updated dynamically.

15. (New) The customer premises telecommunications hub of claim 14, wherein said customer premises telecommunications hub is delayed from rebooting until the customer premises telecommunications hub is idle.

16. (New) The customer premises telecommunications hub of claim 9, wherein the configuration update module sequentially calls the check function in each of the functional modules and sequentially receives the reports from the check function in each of the functional modules.

17. (New) The customer premises telecommunications hub of claim 16, wherein the configuration update module calls the update function in each of the functional modules when the update module receives the reports from the check function in all of the functional modules and all of the reports indicate that all of the parameters that have been changed can be updated dynamically.

18. (New) The customer premises telecommunications hub of claim 17, wherein the update function for each of the functional modules reads the parameters in the new configuration file which have been changed and writes the read parameters to the locally stored configuration file parameters which affect its operations.

19. (New) The customer premises telecommunications hub of claim 16, wherein the configuration update module issues a command to reboot the customer premises telecommunications hub when the update module receives a report from the check function in any of the functional modules that indicates not all of the parameters that have been changed can be updated dynamically.

20. (New) The customer premises telecommunications hub of claim 19, wherein the customer premises telecommunications hub is delayed from rebooting until the customer premises telecommunications hub is idle.